

Reporting Title: Erythrocytosis Evaluation

Performing Location: Rochester

Ordering Guidance:

Polycythemia vera and acquired causes of erythrocytosis should be excluded before ordering this evaluation.

Necessary Information:

Send the following information with the specimen:

- Recent transfusion information
- Most recent complete blood cell count (CBC) results and serum erythropoietin (EPO) levels, if known

[Metabolic Hematology Patient Information \(T810\)](#) is strongly recommended and should include clinical and family history, CBC results, EPO levels, and *JAK2* testing results, if known. Testing may proceed without this information; however, it allows for a more complete interpretation.

Specimen Requirements:

Container/Tube:

Preferred: Lavender top (EDTA)

Acceptable: Yellow top (ACD solution B), green top (sodium heparin)

Specimen Volume: 5 mL

Collection Instructions: Send whole blood specimen in original tube. Do not aliquot.

- Forms:
- New York Clients-Informed consent is required.** Document on the request form or electronic order that a copy is on file. The following documents are available:
    - [Informed Consent for Genetic Testing \(T576\)](#)
    - [Informed Consent for Genetic Testing-Spanish \(T826\)](#)
  - [Metabolic Hematology Patient Information \(T810\)](#)
  - [If not ordering electronically, complete, print, and send a Benign Hematology Test Request \(T755\)](#) with the specimen.

| Specimen Type    | Temperature  | Time   | Special Container |
|------------------|--------------|--------|-------------------|
| Whole Blood EDTA | Refrigerated | 7 days |                   |

Result Codes:

| Result ID | Reporting Name             | Type         | Unit | LOINC®          |
|-----------|----------------------------|--------------|------|-----------------|
| 60286     | Hb Variant by Mass Spec, B | Alphanumeric |      | No LOINC Needed |
| 41927     | Hb A                       | Numeric      | %    | 20572-4         |
| 41928     | Hb F                       | Numeric      | %    | 32682-7         |
| 41929     | Hb A2                      | Numeric      | %    | 4552-6          |
| 41930     | Variant 1                  | Alphanumeric | %    | 24469-9         |
| 41931     | Variant 2                  | Alphanumeric | %    | 24469-9         |
| 41932     | Variant 3                  | Alphanumeric | %    | 24469-9         |
| 41933     | HGBCE Interpretation       | Alphanumeric |      | 78748-1         |
| 65615     | HPLC Hb Variant, B         | Alphanumeric |      | No LOINC Needed |

|        |                               |              |  |         |
|--------|-------------------------------|--------------|--|---------|
| 608426 | Erythrocytosis Interpretation | Alphanumeric |  | 59466-3 |
| 608440 | Reviewed By                   | Alphanumeric |  | 18771-6 |

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

| Test Id | Reporting Name                      | CPT Units | CPT Code | Always Performed | Available Separately |
|---------|-------------------------------------|-----------|----------|------------------|----------------------|
| REVEI   | Erythrocytosis Interpretation       | 1         | 83020    | Yes              | No                   |
| HGBCE   | Hb Variant, A2 and F Quantitation,B | 1         | 83020    | Yes              | Yes                  |
| HPLC    | HPLC Hb Variant, B                  | 1         | 83021    | Yes              | No                   |
| MASS    | Hb Variant by Mass Spec, B          | 1         | 83789    | Yes              | No                   |

CPT Code Information:

- 83020-26
- 83020
- 83021
- 83789
- 83068 (if appropriate)
- 82664 (if appropriate)
- 88184 (if appropriate)

Reflex Tests:

| Test Id | Reporting Name                      | CPT Units | CPT Code | Always Performed | Available Separately |
|---------|-------------------------------------|-----------|----------|------------------|----------------------|
| SDEX    | Sickle Solubility, B                | 1         | 85660    | No               | Yes                  |
| HEMP    | Hereditary Erythrocytosis Mut, B    | 1         | 81479    | No               | Yes                  |
| IEF     | Isoelectric Focusing, B             | 1         | 82664    | No               | No                   |
| UNHB    | Hb Stability, B                     | 1         | 83068    | No               | No                   |
| HPFH    | Hb F Distribution, B                | 1         | 88184    | No               | No                   |
| ATHAL   | Alpha-Globin Gene Analysis          | 1         | 81269    | No               | Yes                  |
| WASQR   | Alpha Globin Gene Sequencing, B     | 1         | 81259    | No               | Yes, (Order WASEQ)   |
| WBSQR   | Beta Globin Gene Sequencing, B      | 1         | 81364    | No               | Yes, (Order WBSEQ)   |
| WBDDR   | Beta Globin Cluster Locus Del/Dup,B | 1         | 81363    | No               | Yes, (WBDD)          |
| WGSQR   | Gamma Globin Full Gene Sequencing   | 1         | 81479    | No               | Yes, (Order WGSEQ)   |
| BPGMM   | BPGM Full Gene Sequencing           | 1         | 81479    | No               | Yes                  |
| REVE0   | Erythrocytosis Summary Interp       |           |          | No               | No                   |
| VHLE    | VHL Gene Erythrocytosis Mutations   | 1         | 81404    | No               | Yes, (Order VHLZZ)   |

Result Codes for Reflex Tests:

| Test ID | Result ID | Reporting Name                      | Type         | Unit | LOINC®          |
|---------|-----------|-------------------------------------|--------------|------|-----------------|
| IEF     | 81644     | Isoelectric Focusing, B             | Alphanumeric |      | 49316-3         |
| SDEX    | 9180      | Sickle Solubility, B                | Alphanumeric |      | 6864-3          |
| HPFH    | 8270      | Hb F Distribution, B                | Alphanumeric |      | 4579-9          |
| HPFH    | 2104      | Interpretation                      | Alphanumeric |      | 59466-3         |
| UNHB    | 9095      | Hb Stability, B                     | Alphanumeric |      | 4639-1          |
| VHLE    | 37886     | Known Mut Reason for Referral       | Alphanumeric |      | 42349-1         |
| VHLE    | 37840     | Result Summary                      | Alphanumeric |      | 50397-9         |
| VHLE    | 37841     | Result                              | Alphanumeric |      | 82939-0         |
| VHLE    | 37842     | Interpretation                      | Alphanumeric |      | 69047-9         |
| VHLE    | 37843     | Additional Information              | Alphanumeric |      | 48767-8         |
| VHLE    | 37844     | Specimen                            | Alphanumeric |      | 31208-2         |
| VHLE    | 37845     | Source                              | Alphanumeric |      | 31208-2         |
| VHLE    | 37846     | Released By                         | Alphanumeric |      | 18771-6         |
| BPGMM   | 37111     | BPGM Gene Sequencing Result         | Alphanumeric |      | No LOINC Needed |
| BPGMM   | 37112     | BPGM Interpretation                 | Alphanumeric |      | 69047-9         |
| WASQR   | 47952     | Alpha Globin Gene Sequencing Result | Alphanumeric |      | 50397-9         |
| WASQR   | 47953     | Interpretation                      | Alphanumeric |      | 59466-3         |
| WBDDR   | 48356     | Beta Globin Cluster Locus Del/Dup   | Alphanumeric |      | 50397-9         |
| WBDDR   | 48355     | Reviewed by                         | Alphanumeric |      | 18771-6         |
| WBDDR   | 48357     | Interpretation                      | Alphanumeric |      | 59466-3         |
| WBSQR   | 47954     | Beta Globin Gene Sequencing Result  | Alphanumeric |      | 50397-9         |
| WBSQR   | 47955     | Interpretation                      | Alphanumeric |      | 59466-3         |
| WGSQR   | 47950     | Gamma Globin Gene Sequencing Result | Alphanumeric |      | 50397-9         |
| WGSQR   | 47951     | Gamma Globin Interpretation         | Alphanumeric |      | 59466-3         |
| REVE0   | 608094    | Erythrocytosis Summary Interp       | Alphanumeric |      | 59465-5         |
| REVE0   | 608116    | Reviewed By                         | Alphanumeric |      | 18771-6         |

**Reference Values:**  
Definitive results and an interpretive report will be provided.